November 14, 2006
Patuxent Wildlife Research Refuge
Chesapeake Bay Program STAC Responsive Workshop

Quantifying the Role of Stream Restoration in Achieving Nutrient and Sediment Reductions

AGENDA

9:00 am Registration Opens, Coffee and Continental Breakfast (provided)

9:30 am Welcome: Overview of Workshop, Logistics, and Introductions
Subcommittee Sponsors

9:45 am Opening Remarks
The science of quantifying stream restoration pollutant reductions: site specific considerations including physiographic and land use settings, etc.
Margaret Palmer, University of Maryland Center for Environmental Science

10:30 am **Panel 1 -** Nutrients in Stream Systems: Quantifying Reductions Achieved Through Stream Restoration Practices

- Nutrient retention and transport in stream-riparian ecosystems
  Gregory Noe and Judson Harvey, US Geological Survey
- Potential benefits of stream restoration on N export
  Larry Band, University of North Carolina
- Evaluation of water-quality effects of implemented BMPs and documented reduction in total N and P
  Daniel Galeone, US Geological Survey Water Science Center
- Participants' Questions for Panel (15 minutes)

11:45 am Summary of Nutrient BMP Efficiency Recommendations
Katharine Dowell, Environmental Protection Agency – Panel 1 Facilitator

12:00 pm Lunch (provided)

1:00 pm **Panel 2** - Sediments in Stream Systems: Quantifying Reductions Achieved Through Stream Restoration Practices

- Role and nutrient content of legacy sediment
  Dorothy Merritts and Robert Walter, Franklin and Marshall College
- Legacy sediment and the sediment budget
  Jim Pizzuto, University of Delaware
- Stream bank erosion and sediment loading

Peter Wilcock, Johns Hopkins University

- Participants' Questions for Panel (15 minutes)

2:15 pm Summary of Sediment BMP Efficiency Recommendations
Ted Graham, Washington Council of Governments - Panel 2 Facilitator

2:45 pm Break and Refreshments (provided)

3:00 pm **Panel 3** - Urban Systems: Quantifying Outcomes of Urban Stream Restoration

- Geomorphic controls on carbon and nitrogen processing in a restored urban stream
  Paul Mayer, Environmental Protection Agency and Ed Doheny, US Geological Survey
- Effects of hydrology on nitrogen processing in a restored urban area
  Elise Striz, Environmental Protection Agency
- Effects of stream restoration on denitrification of an urbanizing watershed of the mid-Atlantic U.S.
  Peter Groffman, Institute of Ecosystem Studies and Sujay Kaushal, University of Maryland Center for Environmental Science
- Participants' Questions for Panel (15 minutes)

4:15 pm Summary of Urban Nutrient and Sediment BMP Efficiency Recommendations
Sarah Weammert, University of Maryland - Panel 3 Facilitator

4:30 pm Concluding Summary Discussion: Matrix of N, P, Sediment Efficiency Numbers, or Next Steps/Research Needs
Facilitator: *Margaret Palmer, University of Maryland Center for Environmental Science*

5:00 pm Adjourn